

# **AFCTN Test Report** 94-006

# **AFCTB-ID** 93-033



# **Technical Publication Transfer**

Using



U. S. Lynx's Data



**MIL-D-28000A (IGES)** 

MIL-M-28001A (SGML)

MIL-R-28002A (Raster)

MIL-D-28003 (CGM)



**Quick Short Test Report** 

10 May 1993



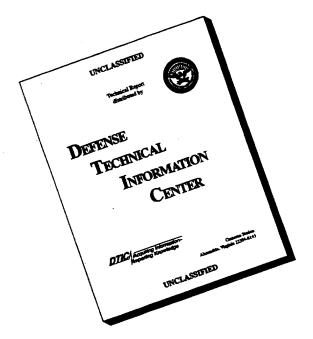
ШШ

Prepared for

Electronic Systems Center

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MIL-D-28003 (CGM)

Quick Short Test Report 10 May 1993

**Prepared By** 

Air Force CALS Test Bed Wright-Patterson AFB, OH 45433

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Programme to the second

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#### 1. Introduction

#### 1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. ticipants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develope increased The results of informal tests are confidence in them. reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

#### 1.2 Purpose

The purpose of the informal test reported, in this QSTR, was to analyze U. S. Lynx's interpretation and use of the CALS standards, in transferring technical publication data. U.S. Lynx used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

This tape and the files contained on it are part of the SGML transfer demonstration being conducted by the Air Force CALS Test Bed (AFCTB). This is the first of 16 companies/organization participating in the test.

# 2. Test Parameters

Test Plan:

AFCTB 93-033

Date of

Evaluation:

10 May 1993

Evaluator:

George Elwood

Air Force CALS Test Bed

DET 2 HQ ESC/ENCP

4027 Colonel Glenn Hwy

Suite 300

Dayton OH 45431-1672

Data

Originator:

Michael Krieger

U. S. Lynx 853 Broadway

New York NY 10003 (212) 673-3210

Data

Description:

Technical Manual Test

1 Document Declaration file

1 Document Type Definition (DTD)

1 Initial Graphics Exchange Standards

(IGES) file

1 Text file

5 Raster files

3 Computer Graphics Metafile (CGM) files

Data

Source System:

1840

HARDWARE

Unknown

SOFTWARE

Unknown

**IGES** 

HARDWARE

Unknown

SOFTWARE

Unknown

#### Text/Standard Generalized Markup Language (SGML)

HARDWARE

Unknown

SOFTWARE

Unknown

Raster

HARDWARE

Unknown

SOFTWARE

Unknown

CGM

HARDWARE

Unknown

SOFTWARE

Unknown

#### Evaluation Tools Used:

#### MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.9 UNIX

XSoft CAPS/CALS v40.4

Texas Instruments (TI) Tapetool v1.0.1

PC 486/50

AFCTN Tapetool v1.2.9 DOS

#### MIL-D-28000 (IGES)

Sun SparcStation 2

AUTODESK AutoCAD R12 XSoft CAPS ig2ps v6.0x

ArborText iges2draw

IGES Data Analysis (IDA) Parser/Verifier v92

IDA IGESView v3.05

International TechneGroup Incorporated

(ITI) IGES/Works v1.3

PC 486/50

AUTODESK AutoCAD 386 R12 Cadkey Cadkey v5.02 IDA IGESView Windows

#### MIL-M-28001 (SGML)

SUN SparcStation 2

ArborText ADEPT v4.2.1

PC 486/50

Datalogics ParserStation v3.36
Exoterica XGMLNormalizer v1.2e3.2
Exoterica Validator v2.0 EXL
McAfee & McAdam Sema Mark-it v2.3
Public Domain sgmls

#### MIL-R-28002 (Raster)

SUN SparcStation 2

ArborText g42tiff AFCTN validg4 AFCTN calstb.475 IDA IGESView v3.0

Island Graphics IslandPaint v3.0

PC 486/50

IDA IGESView Windows
Inset Systems HiJaak v2.1
Inset Systems HiJaak Window v1.0
Corel Ventura Publisher

#### MIL-D-28003 (CGM)

SUN SparcStation 2

ArborText cgm2draw
Island Graphics IslandDraw v3.0
Carberry CADLeaf v3.1

PC 486/50

Advance Technology Center
(ATC) MetaView R 1.12

ATC MetaCheck R 2.05

Software Publishing Corporation

(SPC) Harvard Graphics v3.05

Inset Systems HiJaak v2.1

Inset Systems HiJaak v1.0 Windows

Micrografx Designer v3.1 Corel Ventura Publisher

Standards Tested:

MIL-STD-1840A MIL-D-28000A MIL-M-28001A MIL-R-28002A MIL-D-28003

#### **3. 1840A Analysis**

# 3.1 External Packaging

The tape arrived at the AFCTB enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

#### 3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

#### 3.2.1 Tape Formats

The tape was run through the AFCTN Tapetool v1.2.9 utility. No errors were encountered while evaluating the contents of the tape labels.

# 3.2.2 Declaration and Header Fields

No errors were found in the Document Declaration file or data file headers.

The physical structure of the tape meets the CALS MIL-STD-1840A requirements.

#### 4. IGES Analysis

The tape contained one IGES file. This file was evaluated using IDA's Parser and Verifier for CALS Class I standards. No errors were reported during this procedure.

The AFCTB has several tools for viewing IGES files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The file was converted using ArborText's *iges2draw* utility without a reported error. The resulting file was read into Island Graphics' *IslandDraw* and displayed without a problem.

The file was read into IDA's *IGESView* and *IGESView* for *Windows* without a reported problem.

The file was converted using Rosetta Technologies' *Prepare* without a reported error. The resulting file was read into *Preview* and displayed without a problem.

The file was read into ITI's *IGESWorks* and displayed without a reported error.

The file was converted using AUTODESK's AutoCAD R12 with the 5.1 IGES translator without a problem.

The file was converted using Cadkey's ig2c utility without a reported error. The resulting file was read into Cadkey and displayed without a problem.

The file was checked against the file that was sent from the AFCTB and it was found to be the same.

The IGES file meets the CALS MIL-D-28000A Class I specification.

#### 5. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and Text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report. Changes to DTD or Text files required by each system are not documented in the report.

The Text and DTD files from the tape were evaluated using Datalogics' ParseStation. No errors were reported.

The Text and DTD files from this document were evaluated using the Exoterica *Validator* parser with no reported errors.

The Text and DTD files from this document were tested using the Exoterica XGMLNormalizer parser. No errors were reported.

The Text and DTD files from the tape were evaluated using McAfee & McAdam's Sema Mark-it parser. No errors were reported.

The Text and DTD files from the tape were evaluated using the Public Domain sgmls parser. No errors were reported.

The Text file was read into ArborText's Adept software without a problem and published.

The DTD and Text files meet the CALS MIL-M-28001A specification.

#### 6. Raster Analysis

This tape contained five Raster files. All five files were evaluated using the AFCTN validg4 utility without any errors being reported. All five files were read into the AFCTN calstb.475 and displayed on the screen. No problems were encountered during this procedure.

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The files were converted using ArborText's g42tiff utility without a reported error. The resulting files were read into Island Graphics' IslandPaint and displayed.

The files were read into IDA's IGESView and IGESView for Windows without a reported problem.

The files were read into Inset Systems' HiJaak for Windows and displayed without a reported problem.

The files were read into Carberry's CADLeaf software and displayed without a reported error.

The files were converted using Inset Systems' HiJaak into an IMG format which was then read into Corel's Ventura Publisher.

The files were compared to the files sent from the AFCTB and they were found to be the same.

The Raster files meet the CALS MIL-R-28002A specification.

#### 7. CGM Analysis

The tape contained three CGM files. All three files were evaluated using ATC's MetaCheck software with CALS options. This software reported that the CGM files meet the CALS MIL-D-28003 specification.

The AFCTB has several tools for viewing CGM files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor and indication of CALS capability. All operations were performed using the default settings.

The files were read into Carberry's CADLeaf software without a reported error.

The files were read into Inset Systems' HiJaak for Windows without a reported error.

They were converted using ArborText's cgm2draw utility without a reported error. The resulting files were read into Island Graphics' IslandDraw and displayed without a problem.

The files were directly imported into Island Graphics' IslandDraw without a reported error.

The files were imported into the Micrografx Designer without a reported error.

The files were imported into SPC's Harvard Graphics 3.05 without a reported error.

jThe files were imported into Corel's *Ventura Publisher* without a reported error.

The files were compared to the files sent from the AFCTB and they were found to be the same.

The CGM files meet the CALS MIL-D-28003 specification.

#### 8. Conclusions and Recommendations

The tape from U. S. Lynx was correct. No errors were reported from any of the tape utilities available in the AFCTB. The basic tape structure meets the CALS MIL-STD-1840A requirements.

The IGES file on the tape meets the CALS Class I MIL-D-28000A specification.

The Text file and DTD on the tape were, parsed without a reported error using several different parsers available in the AFCTB. They meet the CALS MIL-M-28001A specification.

The Raster file meets the CALS MIL-R-28002A specification.

The CGM file meets the CALS MIL-D-28003 specification.

The tape and files submitted by U. S. Lynx meet the CALS MIL-STD-1840A requirements.

# 9. Appendix A - Tapetool Report Logs

# 9.1 Tape Catalog

Air Force CALS Test Network Catalog Evaluation - Version 1.2; Release 9 (U)

#### Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes for Information Interchange ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri May 07 11:44:46 1993

MIL-STD-1840A File Catalog

File Set Directory: C:\CTN129\OVERLAND\SET005

Page: 1

		Record		
		Format/	Block	Selected/
File Name	File Type	Length	Length/Total	Extracted
D001	Document Declaration	D/00260	02048/000001	Extracted
D001T001	TEXT	D/00260	02048/000019	Extracted
D001G002	DTD	D/00260	02048/000019	Extracted
D001H003	Output Specification	D/00260	02048/000042	Extracted
D001Q004	IGES	F/00080	02000/000192	Extracted
D001C005	CGM	F/00080	00800/000040	Extracted
D001C006	CGM	F/00080	00800/000085	Extracted
D001C007	CGM	F/00080	00800/000011	Extracted
D001R008	Raster	F/00128	02048/000007	Extracted
D001R009	Raster	F/00128	02048/000005	Extracted
D001R010	Raster	F/00128	02048/000015	Extracted
D001R011	Raster	F/00128	02048/000006	Extracted
D001R012	Raster	F/00128	02048/000004	Extracted

Catalog Process terminated normally.

#### 9.2 Tape Evaluation Log

Air Force CALS Test Network Tape Evaluation - Version 1.2; Release 9 (U) Standards referenced:

ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri May 07 11:43:54 1993
ANSI Tape Import Log
Rewinding tape to load point...

VOL1USLX01

US LYNXV1.0D

Label Identifier: VOL1
Volume Identifier: USLX01
Volume Accessibility:
Owner Identifier:

Label Standard Version: 4

HDR1D001

USLSET00010001000101 93126000000 000000US LYNXV1.0D

Label Identifier: HDR1 File Identifier: D001

File Set Identifier: USLSET
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 01

Creation Date: 93126 Expiration Date: 000000 File Accessibility: Block Count: 000000

Implementation Identifier: US LYNXV1.0D

HDR2D0204800260

00

Label Identifier: HDR2 Recording Format: D Block Length: 02048 Record Length: 00260 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

EOF1D001

USLSET00010001000101 93126000000 000001US LYNXV1.0D

Label Identifier: EOF1
File Identifier: D001

File Set Identifier: USLSET
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 01

Creation Date: 93126 Expiration Date: 000000 File Accessibility: Block Count: 000001

Implementation Identifier: US LYNXV1.0D

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

<<<< PART OF LOG REMOVED HERE >>>>

HDR1D001R012

USLSET00010013000101 93126000000 000000US LYNXV1.0D

Label Identifier: HDR1
File Identifier: D001R012
File Set Identifier: USLSET
File Section Number: 0001
File Sequence Number: 0013
Generation Number: 0001
Generation Version Number: 01

Creation Date: 93126 Expiration Date: 000000 File Accessibility: Block Count: 000000

Implementation Identifier: US LYNXV1.0D

HDR2F0204800128

00

Label Identifier: HDR2 Recording Format: F Block Length: 02048 Record Length: 00128 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

Actual Block Size Found = 2048 Bytes. Number of data blocks read = 4.

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

EOF1D001R012 USLSET00010013000101 93126000000 000004US LYNXV1.0D

Label Identifier: EOF1 File Identifier: D001R012 File Set Identifier: USLSET File Section Number: 0001 File Sequence Number: 0013 Generation Number: 0001

Generation Version Number: 01

Creation Date: 93126 Expiration Date: 000000 File Accessibility:

Block Count: 000004

Implementation Identifier: US LYNXV1.0D

#### EOF2F0204800128

00

Label Identifier: EOF2 Recording Format: F Block Length: 02048 Record Length: 00128 Offset Length: 00

\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Tape Mark \*\*\*\*\*\*\*\*\*

########## End of Volume USLX01 #############

########## End Of Tape File Set ##############

Rewinding tape to load point...

Tape Import Process terminated normally.

#### 9.3 Tape File Set Validation Log

Air Force CALS Test Network File Set Evaluation - Version 1.2; Release 9 (0) Standards referenced:

MTL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri May 07 11:44:46 1993

MIL-STD-1840A File Set Evaluation Log

File Set: SET005

Found file: D001

Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: US LYNX INC, 853 Broadway, New York, NY 10003 (212) 673-3210 Contact: S Kelly

srcdocid: Air Force CALS Test Bed CALS EXPO SGML Demonstration

srcrelid: NONE

chglvl: ORIGINAL 1 19930326

dteisu: 19930326

dstsys: Air Force CALS Program Office, att: George Elwood, HQ AFMC/ENC

dstdocid: CALS Expo SGML Demonstration

dstrelid: NONE dtetrn: 19930506 dlvacc: NONE

filcnt: T1, G1, H1, Q1, R5, C3

ttlcls: UNCLASSIFIED
doccls: UNCLASSIFIED
doctyp: Technical Manual

docttl: SGML TRANSFER DEMONSTRATION

Found file: D001T001

Extracting TEXT Header Records...
Evaluating TEXT Header Records...

srcdocid: Air Force CALS Test Bed CALS EXPO SGML Demonstration

dstdocid: CALS Expo SGML Demonstration

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving TEXT Header File: D001T001.HDR Saving TEXT Data File: D001T001.TXT

#### <<<< PART OF LOG FILE REMOVED HERE >>>>

Found file: D001R012

Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: Air Force CALS Test Bed CALS EXPO SGML Demonstration

dstdocid: CALS Expo SGML Demonstration

txtfilid: W
figid: NONE

srcgph: SGMLMAP.GP4
doccls: UNCLASSIFIED

rtype: 1

rorient: 000,270

rpelcnt: 001500,001159

rdensty: 0300
notes: NONE

Saving Raster Header File: D001R012.HDR Saving Raster Data File: D001R012.GR4

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation. Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification. File Count verification complete.

No errors were encountered in Document D001.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

#### 9.4 Other Tape Reading Logs

No errors reported by any of the other tape reading utilities.

#### 10. Appendix B - Detailed IGES Analysis

#### 10.1 File D001Q004

#### 10.1.1 Parser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***
         ***
                   MARCH 1992
               IGES Data Analysis
                                     ***
               (708) 449-3430
Input file is i:\9329\d001q004.igs
Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)
Today is May 11, 1993 10:58 AM
*** File and Product Name Information ***
  File name from sender = 'I:\9329\D001Q004.igs'
  File creation Date.Time = '930510.095919'
  Model change Date.Time = ''
  Author
                           = 'George Elwood'
                           = 'Air Force CALS Test Bed'
  Department
  Product name from sender = 'I:\9329\D001Q004.IGS'
  Destination product name = '\expo\expo2\hook1.prt'
*** Parameter Delimiters ***
  Delimiter = ','
  Terminator = ';'
*** Originating System Data ***
                        = 'IGES Data Analysis - IGESVIEW'
   System ID
   Preprocessor version = 'IGESVIEW Version 3.05'
   Specification version = 6 (IGES 4.0)
*** Precision levels ***
   Integer bits =
   Floating point - Exponent = 308 Mantissa =
  Double precision - Exponent = 308 Mantissa =
*** Global Model Data ***
```

Model scale = 1.0000E+000

Unit flag = 1

Units = 'INCH'

Line weights = 1

Maximum line thickness = 3.937008E-002 Minimum line thickness = 3.937008E-002

CAUTION 2317: Maximum line thickness equal to minimum thickness.

Granularity = 1.000000E-004 Maximum coordinate = 6.778878E+000

Drafting standard applicable to original data is not specified.

#### \*\*\* Status Flag Summary \*\*\*

Blank status:	Visible	1341
	Blanked	0
Independence:	Independent	1339
	Physically Subordinate	0
	Logically Subordinate	2
	Totally Subordinate	0
Entity use:	Geometry	1
	Annotation	1340
	Definition	0
	Other	0
	Logical/Positional	0
	2D parametric	0
	Not Specified	0
Hierarchy:	Structure DE applies	0
	Subordinate DE applies	1341
	Hierarchy property applies	0
	Not Specified	0

#### \*\*\* Entity Occurrence Counts \*\*\*

Entity	Form	Level	Count	Туре
104	1	0	58	Conic arc - ellipse
106	11	0	268	Copious data - Piecewise planar, linear string(2D
path)				
110	0	0	716	Line
124	0	0	58	Transformation matrix

212	0	0	238	General note
404	0	0	1	Drawing
406	16	0	1	Property - Drawing size
410	0	0	1	View - Orthographic parallel
** Entit	y Count	by Level	***	

Level Count 0 1341

\*\*\* Labeling Information \*\*\*

0% of the entities are labeled.

Unlabeled 1341

\*\*\* Line Fonts Used in Data \*\*\*

100	102	104	106	108	11,0	112	114			
-	-	-	-	· <b>-</b>	-	-	-	Undefined		
-	-	58	268	-	716	-	-	Solid		
-	-	-	-	-	-	-	-	Dashed		
-	-	-	-	-	-	-	-	Phantom		
-	-	-	-	-	-	-	-	Center-line		
-	-	-	-	-	-	-	-	Dotted		
-	-	-	-	-	-	-	-	User defined		
116	118	120	122	124	125	126	128			
-	-	-	-	-	-	-	-	Undefined		
-	-	-	-	58	-	-	-	Solid		
-	-	-	-	-	-	-	-	Dashed		
-	-	-	-	-	-	-	-	Phantom		
-	-	_	-	-	-	-	-	Center-line		
_	-	-	-	-	-	-	-	Dotted		
_	_	-	-	-	-	-	-	User defined		
130	132	134	136	138	140	142	144			
-	_	-	-	-	-	-	-	Undefined		
-	-	-	-	-	-	-	-	Solid		
-	_	-	-	-	-	-	-	Dashed		
-	_	-	_	-	-	-	-	Phantom		
_	-	-	-	-	-	-	-	Center-line		
_	_	-	_	-	_	-	-	Dotted		
_	-	-	-	-	-	-	-	User defined		

Drawing at D

```
*** Line Widths Used in Data ***
    Weight
               Count
                        Width
 Defaulted
              1341
                        (0.0394)
*** Colors Used in Data ***
 Defaulted
                 3
     Black
              1338
*******
***** ENTITY ANALYSIS *****
*******
*** Entity type: 104
*** Entity type: 106
*** Entity type: 110
      716 lines averaging 2.835388E-001 units --
*** Entity type: 124
58 transformation matrices, 58 non-zero translations.
       2341: 58 matrices contain translation information.
*** Entity type: 212
      238 text strings in data file.
      Average text aspect ratio in file is 0.9073355.
      Minimum text aspect ratio in file is 0.4678925.
      Maximum text aspect ratio in file is 0.9307842.
      FONTS USED IN FILE
      FONT COUNT NAME
              238 Default ASCII Style
*** Entity type: 404
              5 contains 1 views.
Drawing at D
```

5 contains 0 annotation entities.

```
*** Entity type: 406
```

\*\*\* Entity type: 410

Scale of view at D 1 is 1.000000E+000.

Orthographic View entity at D 1 has 0 clipping planes specified.

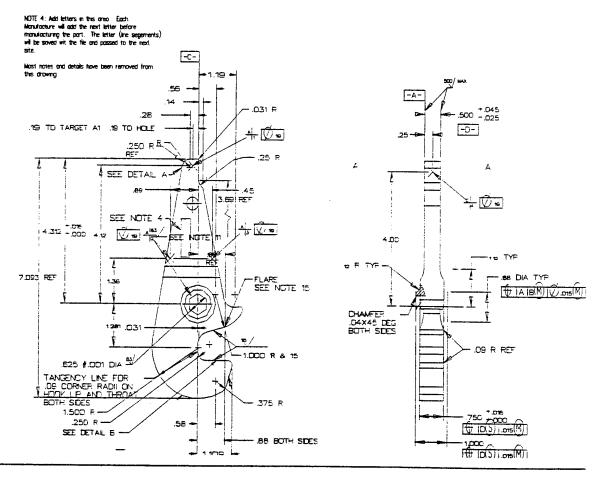
#### \*\*\* Message Summary \*\*\*

2018: 1 Problems with line weight/width display information.

#### \*\*\* Error Summary \*\*\*

- 0 fatal errors
- 0 severe errors
- 0 errors
- 0 warnings
- 1 cautions
- 0 nitpicks
- 1 notes
- \*\*\* End of Analysis of i:\9329\d001q004.igs \*\*\*

# 10.1.2 Output IGESView for Windows



# 11. Appendix C - Detailed SGML Analysis

# 11.1 ArbortText Parser Log

No reported errors.

# 11.2 Datalogics Parser Log

No reported errors.

#### 11.3 Exoterica XGMLNormalizer Parser

No reported errors.

#### 11.4 Sema Mark-it Log

No reported errors.

# 11.5 Public Domain sgmls Log

No reported errors.

#### 11.6 Front Cover - ArborText

# EXPO92 DEMO

# TECHNICAL MANUAL Sample Text

# IGES TRANSFER MANUFACTURING DEMONSTRATION SGML TRANSFER DEMONSTRATION

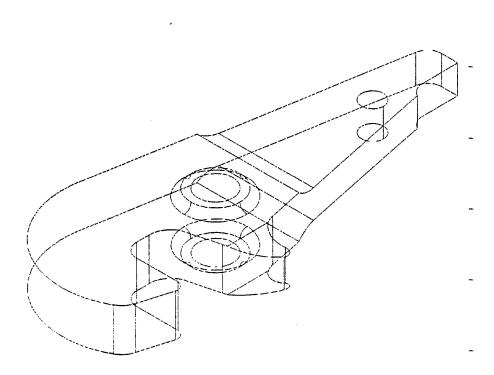
Air Force CALS Test Bed SGML Transfer Demonstration





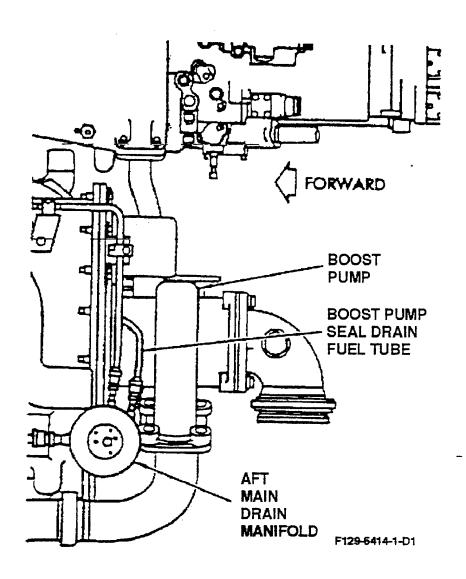
DISCLAIMER: Neither the United States Government or Air Force nor any of their employees, makes any warranty for accuracy or usefulness of any apparatus, product, or process used to create this test document. Reference herein to any specific commercial products, process, or service by trade name, trademark manufacturer, or otherwise, does not necessarily constitute or imply its encorsement, recommendation, or favoring by the United States Government or the Air Force.

- 12. Appendix D Detailed Raster Analysis
- 12.1 File D001R008
- 12.1.1 Output HiJaak for Windows



# 12.2 File D001R009

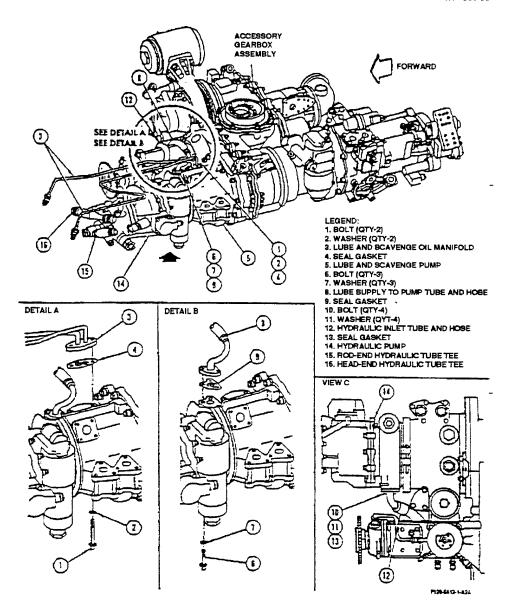
# 12.2.1 Output HiJaak for Windows



# 12.3 File D001R010

# 12.3.1 Output HiJaak for Windows

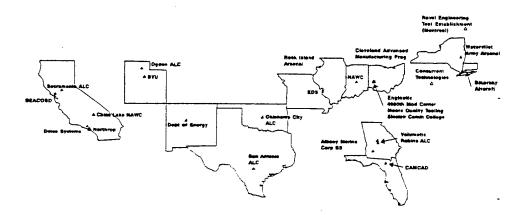
TO 2J-F110-16-6 WP 003 00



# 12.4 File D001R011

# 12.4.1 Output HiJaak for Windows

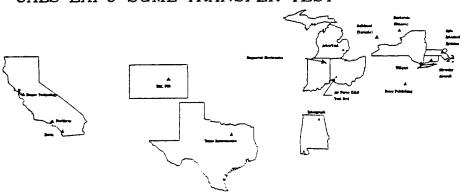
# IGES TRANSFER TEST MANUFACTURING LOCATIONS



# 12.5 File D001R012

# 12.5.1 Output HiJaak for Windows

# CALS EXPO SGML TRANSFER TEST



#### 13. Appendix E - Detailed CGM Analysis

#### 13.1 File D001C005

#### 13.1.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 05/11/93 Time: 10:04:26 Metafile Examined : i:\9329\d001c005.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======== CGM Conformance Violation Report ========== No Errors Detected ======= CALS CGM Profile (MIL-D-28003) Report ========= No profile discrepancies detected. ========= Conformance Summary Report ============= MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 05/11/93 Time: 10:04:32 Name of CGM under test: i:\9329\d001c005.cgm Encoding : Binary Pictures Examined : All : All Elements Examined Bytes Examined : All BEGIN METAFILE string : "METAFILE.CGM" METAFILE DESCRIPTION : "Harvard v3.1 CGM MIL-D-28003/BASIC-1" Picture 1 starts at octet offset 110; string contains: "PICTURE 0"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

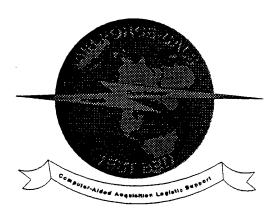
1 Pictures Tested 300 Elements Tested 30720 Octets Tested

No Errors.Were Detected |

========= End of Conformance Report ===========

# 13.1.2 Designer





#### 13.2 File D001C006

#### 13.2.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Time: 10:04:52 Execution Date: 05/11/93 Metafile Examined : i:\9329\d001c006.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======== CGM Conformance Violation Report ========== No Errors Detected ======= CALS CGM Profile (MIL-D-28003) Report ========= No profile discrepancies detected. ========= Conformance Summary Report ========== MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Time: 10:05:03 Execution Date: 05/11/93 Name of CGM under test: i:\9329\d001c006.cgm Encoding : Binary Pictures Examined : All Elements Examined : All Bytes Examined : All BEGIN METAFILE string : "METAFILE.CGM" METAFILE DESCRIPTION : "Harvard v3.1 CGM MIL-D-28003/BASIC-1" Picture 1 starts at octet offset 110; string contains: "PICTURE 0"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

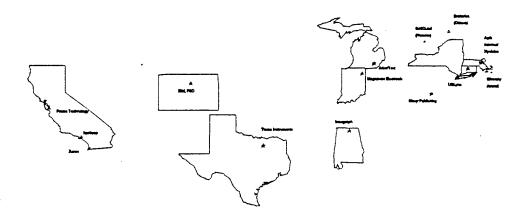
1 Pictures Tested 3413 Elements Tested 66908 Octets Tested

No Errors Were Detected

======= End of Conformance Report ==========

# 13.2.2 Designer

# CALS EXPO SGML TRANSFER TEST



#### 13.3 File D001C007

# 13.3.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 05/11/93 Time: 10:05:16 Metafile Examined : i:\9329\d001c007.cgm Pictures Examined : All Elements Examined : All Examined Bytes : All ============== Trace Report ================= Tracing not selected. ======= CGM Conformance Violation Report ========= No Errors Detected ====== CALS CGM Profile (MIL-D-28003) Report ========= No Errors Detected. ========= Conformance Summary Report ============= MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 05/11/93 Time: 10:05:18 Name of CGM under test: i:\9329\d001c007.cgm Encoding : Binary Pictures Examined : All Elements Examined : All Examined : All BEGIN METAFILE string : "METAFILE.CGM" METAFILE DESCRIPTION : "Harvard v3.1 CGM MIL-D-28003/BASIC-1" Picture 1 starts at octet offset 110; string contains: "PICTURE 0" Conformance Summary : This file conforms to the CGM specification. This file meets the CALS CGM Profile (MIL-D-28003).

#### Summary of Testing Performed and Errors Found:

1 Pictures Tested 120 Elements Tested 8188 Octets Tested

0	Illegal CGM Elements	1000	-	1999
0	Incorrect CGM Element Lengths	2000	-	2999
0		3000	-	3499
0	Required CGM Elements Missing or Wrong	4000	-	4499
0	CGM Parameter Values Out of Range	6000	-	6499
0	CGM Structure Errors	7000	-	7499
0	*** CGM Errors Found (total)	***		
0	Profile State Errors	3500	-	3999
0	Illegal Profile Elements	4500	-	4999
0	Profile Parameter Values Out of Range	6500	-	6999
0	Profile Data Limits Exceeded	8500	-	8999
0	Other Profile Constraints Violated	9500	-	9999
0	*** Profile Violations Found (total)	***		
	,			
0	Warnings (Advisory Remarks)	20000	-	20999
	-			

0 distinct errors and warnings were reported.

========= End of Conformance Report =============

# 13.3.2 Designer

# IGES TRANSFER & MANUFACTURING SITES

